Joint Staff / J65A-Spectrum Perspectives

Joint Staff/J65A-Spectrum

Outline

- J65A Division
- J65A-Spectrum Organization & Mission Areas
- COCOM & Operational Community Support
- MCEB Frequency Panel Support
- NATO Representation
- CCEB Representation
- Tools and Data
- Policy and Doctrine
- Publications Update

J65A Information Transport Division

J6 Front Office

DJ6 LTG Via
VJ6 RADM Hamby
DDJ6 Ms. Salazar
Sr. EA COL Price

J65A Info Trans Div

Chief COL Coles
Mil Dep COL Skirlo
Civ Dep Mr. Latimer

Space

Lt Col Montgomery

Spectrum & IED-Defeat Branch

LCDR Plaisance

Information Transport Branch

LtCol Sizemore

J65A-Spectrum Org Chart

Russ Latimer (GS-15)
Deputy Div Chief

MCEB FP Chair,
NATO FMSC/MFG Rep,
CCEB SWG Rep

LCDR Jeff Plaisance
Branch Chief

CJSMPT, GEMSIS,
JEMSO, RSIA

LTC Lilliam Cruz
Action Officer

CJCSI/Ms, JSIR,
JCEOI WG S-M,
JEMSO

MSG Mike Sears
Action Officer

JS Spectrum Manager,
CJCSI/Ms, JSIR, SMTI,
JCEOI WG S-M

Dion Bowens, CTR
Action Officer

ESG PWG Rep,
Stepstone, JSDR,
EL-CID, JCIDS

Jim Maughan, CTR
Action Officer

SO PWG S-M,
NATO Asst Rep,
CCEB SWG Asst Rep

Mission Areas

Support to COCOMs and other operational aspects

- **MCEB Frequency Panel (FP)**
  - **FP Chair**
  - **Representation on 10 FP Working Groups – 8 Permanent; 2 Ad Hoc**
- **Representative to NATO Spectrum Management Forums**
  - **Frequency Management Sub-Committee (“FMSC” or SC/3)**
  - **Military Frequency Group (“MFG” or SC/2 WG/2)**
  - **Observer / Alternate Rep to Civil / Military Policy Working Group (“C/M PWG” or WG/1)**
- **Representative to Combined Communications-Electronics Board (CCEB) Spectrum Working Group (SWG)**
  - **SWG Chair every five years (Chair during CY 2006)**
  - **Previously two meetings per year (one in host country / one in US); now even one meeting per year is uncertain**

Mission Areas *(Cont'd)*

- **Author of Six CJCS Publications Covering SM**
- **Oversight of Joint Spectrum Interference Resolution (JSIR) Program for CJCS**
- **CJSMPT Oversight for Operational Community**
- **Global Electromagnetic Spectrum Information System (GEMSIS)**
- **Joint Oversight of *New* Joint Electromagnetic Spectrum Operations (JEMSO) Doctrine**
- **Improvised Explosive Device Defeat (IED-D) Mission**
- **Review & Oversight of JCIDS Spectrum Supportability Documents**

J65A Activities related to IED-D

- Serve as “J6” For Joint Improvised Explosive Device Defeat Organization (JIEDDO)
- Established a contract for on site Electronic Warfare / Spectrum SMEs at J6/JIEDDO to coordinate all Spectrum Deconfliction Issues
- Operational Test/Interoperability Support for all aspects of Interoperability Testing
- J6 Electronic Attack/Spectrum Website & Data Repository linked off JIEDDO home page
- Established Program of Instruction for Navy EWO course and Joint EWO courses

J65A Activities related to IED-D (Cont'd)

- Drafted an National Security Presidential Directive for a USG Inter-Agency ECM policy
- Quick Turn EMI/EME Analysis of CREW and Blue Force Comm devices provides recommendations into the testing process
- Interoperability Test Support- reproduce field test capability to answer quick reaction requests for information on interoperability
- On-Site JIEDDO SME in EW, systems engineering and systems integration as JIEDDO continues to grow and mature and the requirements for testing continue to rise.

COCOMs We Support

- US AFRICAN COMMAND - AFRICOM (Vaihingen, Germany – TEMP)
- US CENTRAL COMMAND - CENTCOM (Tampa, FL)
- US EUROPEAN COMMAND - EUCOM (Vaihingen, Germany)
  - Frequency Management Field Office Brussels - FMFO Brussels (BE)
- US JOINT FORCES COMMAND - JFCOM (Norfolk, VA)
- US NORTHERN COMMAND - NORTHCOM (Colorado Springs, CO)
  - North American Aerospace Defense Command (NORAD)
- US PACIFIC COMMAND – PACOM (Camp Smith, HI)
  - US Forces Korea – USFK (Seoul Korea)
  - US Forces Japan – USFJ (Yokota AB, Japan)
- US SOUTHERN COMMAND – SOUTHCOM (Miami, FL)
- US SPECIAL OPERATIONS COMMAND – SOCOM (Tampa, FL)
- US STRATEGIC COMMAND – STRATCOM (Offutt AFB, NE)
- US TRANSPORTATION COMMAND – TRANSCOM (Scott AFB, IL)

Top COCOM Priorities

Derived from this conference and past COCOM Conferences & DOD Spectrum Summit Meetings

- **Improvements to Supportability;**
  - **Primarily - Elimination of deployed systems intended to support the Warfighter that have operational impediments due to spectrum limitations**
  - **Secondarily – Improvements in the tools & process and ability to support rapid acquisition**
- **Spectrum Management Tools and Data for Net-Centric Operations**
- **Lack of Senior Leadership Appreciation of Spectrum Importance**
- **Staffing Levels Versus Current Mission Areas**
- **Spectrum Training (quantity and applicability)**
- **SM Career Field (all Services)**
- **Other Concerns – Operational Electromagnetic Environment**

MCEB Way Ahead

- **MCEB IS BEING REVITALIZED (not final yet)**
  - **Principals' Meeting on 15 Dec (Decisions on Exact Way-Ahead)**
  - **Most Likely will take on Joint Community C4 & CIO Role**
  - **COCOMs proposed for Membership**

- **Frequency Panel (FP) always considered vital and will be prominent within whatever forum and under whatever format is chosen**

MCEB Frequency Panel (FP) WG Focus Areas

Manages 138-162 MHz, and 225-400 MHz Bands for DoD

Working-level involvement with DSA

Architectural Development & Maintenance meeting Congressional Direction to ASD(NII)

Frequency Panel (FP)
Chair: Dep Dir, JS/J65A Division

Permanent & Ad Hoc Working Groups (PWGs & WGs)

- Allied (A PWG)
- Allotment Plan Management (APM PWG (formerly the LMR PWG)
- Dynamic Spectrum Access (DSA PWG) (formerly the SDR PWR)*
- Equipment Spectrum Guidance (ESG PWG)
- International Telecommunication Union (ITU PWG)
- Space Systems (SS PWG)
- Spectrum Management Architecture (SMA PWG)
- Spectrum Operations (SO PWG)

Joint Communications-Electronics Operating Instruction (JCEOI) Ad Hoc Working Group

ACP Ad Hoc Working Group (Renamed Oct 2007)

Oversight, Policy, Management of DoD Freq Asgmt DB

NATO SC/3 & CCEB SWG Preparation

Spectrum Supportability IAW DoDI 4560.01 & CJCSI 6212.01

DoD WRC Preparation in support of ASD(NII)

Coordination & Registration of DoD Satellite Systems

As of 07 Dec 2009

Frequency Panel "Membership"

Name	Organization	Function
Mr. Russ Latimer	JS/J65A	Chair
Mr. Thomas Downie	USN	Vice Chair
LCDR Jeff Plaisance	JS/J65A	JS Member & COCOM Rep
Mr. Stu Timerman	USA/ASMO	USA Member
Mr. Tom Downie	USN/NMSC	USN Member
Mr. Joe Sulick	USAF/AFFMA	USAF Member
CWO3 Bryan Chapman	HQ USMC	USMC Member
Mr. Fred Mistichelli	USCG	USCG Member
Mr. Steven Bates	NSA	NSA Member
Mr. Dan O'Neill	DISA/DSO-SPO	DISA Member
Mr. Tom Taylor (1)	NII-Spectrum	ASD(NII) Representative
Mr. Bill Decker (1)	MDA	MDA Observer
Mr. Joe Whitworth (1)	DISA/DSO-JSC	JSC Representative
Mr. Tom Kidd, III (1) (2)	DON/CIO	DON Representative

(1) Non-voting Status (2) Doesn't Attend

Panel Working Groups

Working Group Title	Steering Member	Organization
Allied	Mr. Rocky Rocksvold	DISA/DSO-SPO
Allotment Plan Management	Ms. Lori Poppenhager	USA/ASMO
Dynamic Spectrum Access - SM DISA/DSO-JSC	Mr. Howard McDonald	
Equipment Spectrum Guidance	Ms. Sarah Bauer	USCG
Intern'l Telecommunication Union DISA/DSO-SPO	Mr. Chris Hofer	
Space Systems	Mr. Paul Blais	DISA/DSO-SPO
Spectrum Management Architecture DISA/DSO-SPO	Mr. Dan O'Neill	
Spectrum Operations	Mr. Jim Maughan	JS/J65A
ACP Ad Hoc	Mr. Tom Hohn	USA/ASMO
Joint CEOI Ad Hoc	LTC Lilliam Cruz	JS/J65A

As of Dec 2009

Frequency Panel

- **Frequency Panel Structure Chartered by MCEB Pub 1 – mirrors MCEB (MCEB currently working on new Terms of Reference)**
- **Consists of 8 subordinate Permanent Working Groups (PWGs) and two Ad-Hoc Working Groups**
  - **Organized by subject matter or specific issue**
  - **FP Chaired by J65 Dep Div Chief; PWGs Chaired by Volunteers from Service or Defense Agency Spectrum Management Offices (SMOs)**
- **Forum brings Stakeholders and Subject Matter Experts together**
  - **Membership: Army, Navy, Air Force, Marine Corps, Coast Guard, J65A (COCOMs), DISA DSO, NSA, & ASD(NII)-Spectrum (1)**
  - **Observers (1): DISA JSC, MDA, DON CIO, others by request**
  - **Required Attendees: Steering Member from PWGs with action items**
  - **Meets monthly (with occasional "special" FP Meetings for specific issues)**

(1) = non-voting status

NATO C3 Organization

North Atlantic Council

Military Committee

NHQC3S

ACO

ACT

NCSA

NATO C3 Board (NC3B)

Mr. Marshall Billingslea (U.S.), ASG/DI — Permanent Chairman
Maj Gen Georges D'hollander (BE) — Co-Vice Chairman
Brig Gen Michael Ludwigs (GE) — Nat'l Co-Vice Chairman

National C3 Representatives

Ms. Cheryl Roby, Acting ASD(NII) — Principal U.S. Rep
RADM Janice Hamby, J5/VJ6 — Alternate U.S. Rep
Mr. El Wells, U.S. Mission — U.S. Rep
Col Linda Brukens, USDELMC — U.S. Rep

NC3A

NPMA

PAC

SC-1 **SC-3** **SC-4** **SC-5** **SC-6** **SC-7** **SC-8**

C3CCSC
Staff Chair
COL K. Rohde (GE)

FREQ MGMT
Staff Chair
Col D. Reese (US)

INFOSEC
National Co-Chair
Mr. M. Loepker (US)
Staff Co-Chair
Col Enrico Bologna (IT)

INFO SYS
National Chair
Mr. A. Dertke (US)

COMM NETWORK
National Chair
Mr. D. Towers (UK)

IDENTIFICATION
National Chair
Col M. Leavitt (US)

NAVIGATION
National Chair
Mr. Ray Swider (US)

US Representatives
Mr. Russ Latimer (JS/J65A)
Mr. Tom Taylor (OASD/NII)

WG-1
Civil / Military Policy Working Group
Mr. Rocky Rocksvold (DISA/DSO-SPO)

WG-2
Military Frequency Group
Mr. Russ Latimer (JS/J65A)

WG-3
Technical Working Group
Mr. Matt Grenis (DISA/DSO-ISC)

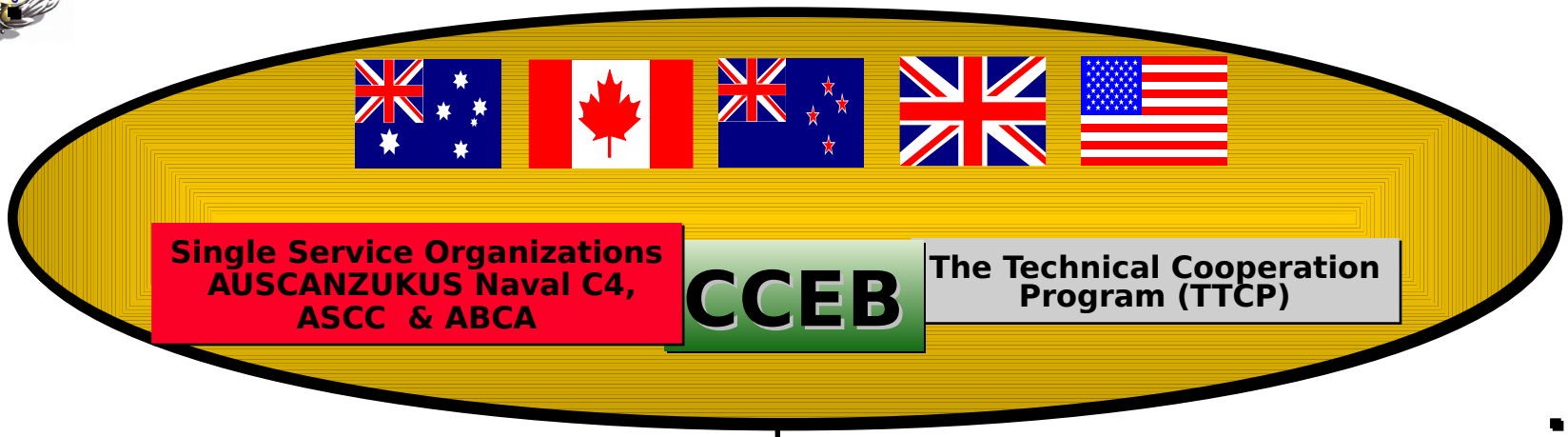
Acronyms

ACO	Allied Command Operations (SHAPE)
ACT	Allied Command Transformation (Norfolk, VA)
BICES	Battle Information Collection & Exploitation System
C3CCSC	Command, Control & Communications Capabilities Coherent Sub-Committee
NACMA	NATO Air Command & Control System Management Agency
NC3A	NATO Consultation, Command & Control (C3) Agency
NCSA	NATO CIS Services Agency
NHQC3S	NATO Headquarters C3 Staff
NPMA	NATO PKI Management Agency
PAC	PKI Advisory Cell

J65A - MAJOR NATO FUNCTIONS

- **Coordinate US Military Positions on C4 issues in NATO**
- **Represent the US at specific International and NATO meetings**
  - **NATO Sub-Committee 3 (SC/3) "Frequency Management Sub-Committee" (FMSC)**
  - **NATO SC/3 Working Group 2, "Military Frequency Group" (MFG)**
- **Develop procedures for US Military Participation in NATO Forums Dealing With C4 Issues**

CCEB Organization



PRINCIPALS

Executive Group

National Staffs

Washington Staff

- Spectrum Working Group
- CWAN Working Group
- Messaging Task Force
- Directory Services Working Group
- ACP Working Group
- INFOSEC Working Group

CCEB SWG[1] Missions & Functions

- Ensure adequate national provision of spectrum and space orbital access for the military systems of the CCEB nations for peace or war
- Formulate specific policy and procedures of CCEB frequency spectrum management and planning
- Coordinate military requirements for inclusion in national proposals prior to International Telecommunication Union (ITU) conferences, maintain liaison during conferences and coordinate implementation following conferences
- Collect, maintain and exchange up-to-date information on frequency allocations, the use of frequencies and/or bands, and spectrum dependent equipment
- Maintain liaison with other CCEB WGs through the appropriate CCEB liaison officer, to maintain awareness of their activities and to provide advice regarding the availability and utilization of the radio frequency spectrum
- Formulate and apply methods for coordinating frequencies and issuing spectrum plans that will meet the requirements of the CCEB nations
- Develop and maintain appropriate ACPs and CCEB Pubs. Revise WG work plans (posted on the CCEB Website) following each meeting

Note 1 Renamed Spectrum Working Group (vs. Frequency Planning Working Group) Feb 2008

TOOLS AND DATA

- **CJSMPT**
  - **Lead for CJSMPT Executive Steering Group and Joint Steering Group**
  - **Detailed Briefing on Wed**
- **GEMSIS**
  - **Voting Member of GEMSIS Increment 1 CCB**
  - **Lead for GEMSIS Increment 2 AoA Operational WG**
  - **Detailed Briefings for Inc 1 and Inc 2 AoA on Wed/Thurs**
- **Spectrum Data Community of Interest (SD COI)**
  - **Representation on each WG**
  - **Data Management Working Group Brief on Wed AM**
  - **Business Process and Implementation Working Group on Wed AM**
  - **Pilot Demonstration Working Group on Wed AM**

TOOLS AND DATA

- **Spectrum Management Allied Data Exchange Format**
  - **Push to have CCEB Nations adopt as “standard format”**
- **JSIR-O**
  - **Joint oversight over Joint Spectrum Interference Resolution Program and development of JSIR-Online**
  - **Detailed Briefing on Wed PM**
- **Spectrum Management Transition Initiative (SMTI)**
  - **Joint oversight of SMTI program and development**
  - **Detailed Briefing on Wed AM / Demo on Fri AM**
- **Joint Automated CEOI System**
  - **Steering Member for JCEOI Ad Hoc WG**

CJCS Spectrum Related Publications

- CJCSI 3320.01B, “ELECTROMAGNETIC SPECTRUM USE IN JOINT MILITARY OPERATIONS”
- CJCSI 3320.02B-1, “CLASSIFIED SUPPLEMENT TO THE JOINT SPECTRUM INTERFERENCE RESOLUTION (JSIR)”
- CJCSI 3320.02C, “JOINT SPECTRUM INTERFERENCE RESOLUTION (JSIR)”
- CJCSI 3320.03A, “JOINT COMMUNICATIONS ELECTRONICS OPERATION INSTRUCTIONS”
- CJCSM 3320.01B, “JOINT OPERATIONS IN THE ELECTROMAGNETIC BATTLESPACE”
- CJCSM 3320.02A, “JOINT SPECTRUM INTERFERENCE RESOLUTION PROCEDURES”
- CJCSI 6212.01D, “INTEROPERABILITY AND SUPPORTABILITY OF INFORMATION TECHNOLOGY AND NATIONAL SECURITY SYSTEMS”

Final Thoughts

- **Management and Use of the Electromagnetic Spectrum involves "spectrum management" (SM), Electronic Warfare (EW), and "Electromagnetic Environmental Effects (E3)" control**
- **Need continuous interchange of information, ideas, and issues**
- **Need more shared forums involving SM and EW**

QUESTIONS?

J6 Organization